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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,856	10/01/2001	Daisuke Kitazawa	214418US2	4045
22850 7590 10/01/2007 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			NGUYEN, TUAN HOANG	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2618	
				•
			NOTIFICATION DATE	DELIVERY MODE
			10/01/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
•	09/965,856	KITAZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Tuan H. Nguyen	2618				
The MAILING DATE of this communication a	1					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO ute, cause the application to become	ICATION. a reply be timely filed  DNTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 10	Responsive to communication(s) filed on <u>10 July 2007</u> .					
,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		·				
4)⊠ Claim(s) <u>13-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdr	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
*	6) Claim(s) <u>13-24</u> is/are rejected.					
,	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	i/or election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Exami	ner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the pr		n received in this National Stage				
application from the International Bure * See the attached detailed Office action for a li		at received				
See the attached detailed Office action for a in	st of the certified copies he	n received.				
Attachment(s)		•				
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		/ Summary (PTO-413) o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date		f Informal Patent Application (PTO-152)				

## **DETAILED ACTION**

1. Claims 1-12 are cancelled.

### Response to Arguments

2. Applicant's arguments filed on 07/10/2007 with respect to claims 13-24 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 13-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rahman (U.S PAT. 6,445,916) in view of Wang et al. (U.S PAT. 6,035,207 hereinafter, "Wang").

Consider claims 13, 16, 19 and 22, Rahman teaches allocating radio resource to radio terminals or communication connections in a radio communication system in which each of said radio terminals or communication connections requires a different communication quality (col. 1 line 66 through col. 2 line 20), said method comprising the steps of: measuring communication qualities of the radio terminals or communication connections (col. 4 lines 6-14).

Rahman does not explicitly show that retrieving a first group including radio terminals or communication connections in which the measured communication qualities are degraded/favorable more than required communication qualities; determining a priority order for allocating radio resource, based on differences between the required communication qualities and the measured communication qualities; and allocating the radio resource to the radio terminals or communication connections of the first group based on the priority order.

In the same field of endeavor, Wang teaches retrieving a first group including radio terminals or communication connections in which the measured communication qualities are degraded/favorable more than required communication qualities (fig. 13)

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col. 12 line 39 through col. 13 line 18); determining a priority order for allocating radio resource, based on differences between the required communication qualities and the measured communication qualities (fig. 13 col. 12 line 39 through col. 13 line 18); and allocating the radio resource to the radio terminals or communication connections of the first group based on the priority order (col. 6 lines 6-12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, retrieving a first group including radio terminals or communication connections in which the measured communication qualities are degraded/favorable more than required communication qualities; determining a priority order for allocating radio resource, based on differences between the required communication qualities and the measured communication qualities; and allocating the radio resource to the radio terminals or communication connections of the first group based on the priority order, as taught by Wang, in order to ensure good channel quality with low cost and complexity while having a high message capacity and being adaptive to changing environments and the resulting demands on the system.

Consider claims 14, 17, 20, and 23, Rahman further teaches the priority order for allocating the radio resource is determined based on a deterioration degree of the measured communication qualities with respect to the required communication qualities (col. 9 lines 35-50).

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Consider claims 15, 18, 21, and 24, Rahman further teaches the required communication qualities are communication qualities concerning allowable delay times, transmission rates, or throughputs (col. 8 lines 4-11).

#### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any response to this action should be mailed to:

Mail Stop\_\_\_\_\_ (Explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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Facsimile responses should be faxed to:

(571) 273-8300

Hand-delivered responses should be brought to:

**Customer Service Window** 

Randolph Building

401 Dulany Street

Alexandria, VA 22313

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is (571)272-8329. The examiner can normally be reached on 8:00Am - 5:00Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Maung Nay A. can be reached on (571)272-7882882. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information Consider the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan Nguyen Examiner Art Unit 2618

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SUPERVISORY PATENT EXAMINED